Leg & 1907

M.L

Previous reference

1907

(Municipal)

Later reference

File No 149-07

Serial Nos. 1 & 5

GENERAL AND REVENUE SECRETARIAT.

Serial No 1 & 5

Part B for September 1907

SUBJECT

2 E 1 Note of Inspection of the Hyderabad State Works by Dr Dalpa Personnel and the Sanitary Condition

1 From the Chief Engr Hyderabad No 5769 dtd 5-10-07 forwards with remarks, subject Copy of note by a Rangdevanam Deputy Engr, Water Supply & State Dr on Dr Dalpas Inspections of the Water Supply & the Hyderabad City

2 To do Public Hyderabad Municipal Council Inspection & Sanitary Condition No 2748-50 dtd 25-9-07 Records & Communicate the Steps taken on Dr Dalpas Report last Cent

R.S 11] 1907-08

GENERAL AND REVENUE SECRETARIAT

(Mk.

NOTES

File No. 149-07

File Heading

Notes of Inspection of the Mysore City Water Works by Dr Paipu, Personal Assistt. to Sanitary Comrs

From

The Chief Engineer of Mysore

No. 57 dg Dated 4 8.'07 Received 9 8. 1907

Diary No 1869 | Enclos 1 | Spare Copies. — | Serial No 1

Brief Abstract of Letter.

Forwards, a typed Copy of G.O. No. 696-8 Mal(558-07), dated the 5th July 1907 with marginal note by Mr. Rangaswamy Iyengar, Engr., Water Supply and Drainage on Dr. Paipu's criticisms re water-supply to the Mysore City.

NOTES AND ORDERS

Secretary's instructions to Branch, &c.

Copies on the Chief Engineer's letter :—

" Submit this to H.H. Councillors and Dewan for perusal "

C.S.B.
(28) 17.8.'07

Note :—First sheet.

GPI 21,000- 20-8-08

G. R. S 12]
General and Revenue
Secretariat

Mel File No 149 of 1907

Serial No

Submitted with previous references to the Devanture of the Mel Sec & 2nd Councillors

19/8

3784/2807

19/8/07

I deem - But there is no G.O. in the enclosure & the Chief Engineers letter -

2 The omission should be supplied & copy should I think be sent to the President Municipal Board The Senior Surgeons No 6066 & 8 June 07 was sent to the President & it is only right & proper that the remarks of the Executive Engineer thereon should also be communicated to the President - Attention

204/26807 Also copy of Chief Engineer's and Executive Engineer's remarks, & explanation, should I think be sent to the Senior Surgeon & Sanitary Commr

6067/28807

27/8/07

onta sheet

GPB—3C 400—05-2 0

G.R.S 12]
General and Revenue Secretariat

W File No 1169 of 1907

Serial No

This may be recorded now
31/8/07

Bn W
II Asch
3/9

Draft submitted but it is doubtful whether with the order "recording", copies of the notes & the Chief Engineer's letter may go to the Sanitary Comm

JB
3/9/07

JB necessary
I think
CBS
4/9

3784
4/9/07

Submit Mrs Fessue
4/9/07

[Either the previous Report sent to these Officers should be cancelled & with them the present comments should also be communicated & then -] Draft
Approved 4th Sept 1907

I agree
HH W
4-9-1907

Issue orders accordingly
CH
4/9

NOTE—Contn sheet

G R S. 12]
General and Revenue Secretariat

NL File No 169 of 1906

Serial No	
	Submitted Instructions are solicited whether the draft in the file which has been approved by both the Comptroller May issue Yes See the letter over leaf abone 23 16/9/07
5	G 0.20 2748-50 dated the 25th September 1907 Records the letter and Communicates it to Officers to whom Dr Palpu's Report was sent

Work—Contin sheet

(1B—5 00— 2.7)

149-07
Pl 1

No 5789/E

Mysore Public Works Department,
Central Office,
Dated, Bangalore, 14th August 1907

From,

W. Mc Hutchin Esquire, M I C E.,
Chief Engineer of Mysore,
BANGALORE

To,

C.S Balasundaram Iyer Esquire, B A ,
Offg Secretary to the Government
of His Highness the Maharaja of Mysore,
General and Revenue Departments,
BANGALORE

Sir,

I have the honor to forward a typed copy of the Proceedings of the Government of His Highness the Maharajah of Mysore No 696-8/M1 556-06-2 9/24 aug communicating letter and enclosures from the Senior Surgeon and Secretary Commissioner, with marginal notes by Mr Rangaswamy Iyengar on Doctor Pal's criticisms of the water-supply to the City of Mysore

II It is hardly necessary for me to say more than that I consider the remarks and criticisms of Doctor Pal on the pumping plant, storage tanks, conduits, mains, all unwarranted and uncalled for It is [illegible] objectionable that Doctor Pal [illegible]

to criticise and condemn what, from his own remarks, he knows absolutely nothing whatever about It is a matter of perfect indifference to me what Doctor Palpu may think of the capacity of the pumping plant, leaking of filters, or as to the old mains and submains being old and useless &c It is more than probable that the officers of this Department are more con-versant with the deficiencies of the plant than he is, and know best how the necessary remedies can be carried out without a serious dislocation of the whole system of water supply

III I may also observe that it is most objectionable that such sensational and unwarranted criticisms of the purity of the water supplied to the City, should be made by a responsible officer of Government without any proof whatever of the present supply being contaminated in any way whatever by sewage &c As a matter of fact any such contamination from the soil in which the mains and submains are laid is almost practically impossible where there is continuous pressure in the mains, and so far as I am aware there is absolutely no proof whatever forthcoming that during the only 3 weeks when there was a partial intermittent supply in May last, there was any contamination of the supply either

IV It is to be noted that the [illegible] Medical,

Sanitary

Sanitary and Engineer officers of Government will work in conjunction with each other to remedy the defects in the present system of water supply, and it is certainly most satis-factory that Mysore has now got an officer qualified to con-duct bacteriological and chemical examinations of its water supply, and it is to be hoped that Doctor Palpu will try and work hand in hand with the Engineering Department in improving the water supply on reasonable and practical lines, instead of submitting useless and annoying reports like the one under reference, which deals mainly with questions of Engineering details of which he confessedly knows nothing whatever except from enquiry from subordinates who are not competent to give him reliable information

I have the honor to be,

Sir,

Your most obedient servant,

W. W. Stutchbury

Chief Engineer and Secretary

[redacted]edings of the Government of His
[redacted]ss the Maharaja of Mysore.

[redacted]Read.-

Letter No G 1066 of the 15th [redacted] 1907 from the Senior Surgeon and [redacted]itary Commissioner with the Govern-[redacted]ment of His Highness the Maaaraja of [redacted]ysore (submitting the report of his [redacted]personal assistant, on the Mysore City [redacted]ater Works)

I have the honour to forward herewith for information and orders of Government a report received from Mr Pulpu, my Personal Assistant in the Sanitation Branch, on the Water Supply of the Capital of the State The re-[redacted]-port speaks of itself and displays a very unsatisfactory state of affairs requiring very urgent remedy

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- Enclosure -

I have the honour to report that I inspected the Vanivilas Water Works in Mysore on the 28th & 29th ultimo [redacted]. The water is from the Cauvery which has a perennial flow It runs into Belagola, the Pumping Station, along an open channel 5 miles long

The

The river receives impurities of all kinds from the towns and villages on its banks, but it is said that there are no villages on the channel and that the water after it gets into it is not polluted any further I have not examined the channel along its course

3 Pumping Station:-

There are 3 turbines Generally only two are worked at a time Each turbine is supposed to raise 21 gallons per revolution and makes 18 revolutions per minute Thus each ought to send 21 x 18 x 60 x 24 or 5,44,820 gallons a day But according to the Superintendent, for every gallon that is raised as much as 15 gallons goes to waste Another D P W Officer says the water amounts to as high as 35 gallons for every gallon sent into the Filtering Station The turbines therefore are unable to send in the quantity required daily, especially in the hot season There is a steam pump to supplement the work of the turbines when necessary This is at rest at present

Dr Pulpu's remarks

It is not clear what Dr Palpu is driving at This is purely a criticism on the Machinery and I do not know if a Medical Officer is qualified to pass any remarks on these I think the Chief Engineer ought to object to such criticisms being made by incompetent authorities

If patrolling the pipe line and rectifying the leaks as they ap--pear is not enough, what does Dr Palpu want Will Dr. Palpu kindly advise me on the matter I do not see any other possible way short of excavating and keeping the trench open permanently Is this an improvement from a sanitary point of view?

Dr Palpu's observations about the tanks being leaky are unwarrant--ed and although I could prove to Dr Palpu that the tanks are prac--tically water-tight I question if he has got a right to make such a scathing remark without telling us how he arrived at this conclusion We have only lately plastered them with cement and the work has not been quite completed as yet No 1 Tank which has been already been plastered is being emptied again for possible flaws &c If there are any they will be rectified. While on the subject of leakage of tanks I beg to observe that a leaky tank is not by any means an in--sanitary tank All masonry tanks do leak to some extent and without an enormous outlay it is impossi--ble to make a perfectly water--tight tank In all Water Supply Projects the question of initial cost is one of the utmost impor--tance and one has often to choose the lesser of two evils Practical Engineers put up with a slight amount of leakage to keep down cost as long as it is not consider--able Why has Dr Palpu not con--demned the Bangalore System where also there is a certain amount of leakage?

Again leakage in tanks does not indicate "Continued eglect" on the part of those who are res--ponsible for the proper up-keep of the works What will Dr Palpu do if the tanks were handed over to him to-morrow Can he stop the so called leaks at once without spending an enormous amount of money? In asking for so much money should not one take into conside--ration if he wa justified in pressing the Government to send

/to

Chief Engineers remarks.

But by any means agree that such cannot be made water-tight But I at the same time say that in case of these Mysore storage tanks was not made in the sanctioned Estimate & line masonry as it was thought be sufficiently water tight

so much unless there was absolute need for it Has Dr Palpu taken the necessary steps to investigate accurately the amount of the leak--age and the savings that will re--sult by stopping it and the cost of doing the same

What has been done by this De--partment was to leave the minor leaks alone as of being no impor--tance at present and tackle the most important ones and this has been done by getting an estimate sanctioned for lining the storage tanks with masonry & plastering with cement This was absolutely necessary as the leakage from these tanks was a big drain on the quantity of water pumped It is not proposed to spend much more for the present on the other tanks as they are all quite good enough for all practical purposes Whatever funds are available will be used elsewhere (ie) in the distri--bution, where there is certainly considerable room for improvement After all I suppose an Officer who is always asking for extra grant and more money is quite as bad as one who neglects his charge There is truly a thing as economy in the management of all works & a limit beyond which, it borders on extra--vagance

4 From the pumps the water passes about 4 miles in iron pipes and a mile afterwards in a masonry chan which is covered over with stone slabs and earth It is said that a man goes over this line daily to see if there are leaks and that no leaks are noticed. Leaks however do not always occur upwards and one that goes along the line cannot detect leaks below or on the sides unless they are large The Superintendent admits there may be small leaks which are not noticed

5 Filtering Station at Vontikoppal - The water is received in what are called settling tanks There are two such tanks and both are leaky, one being repaired now The Superintendent is not able to say how much water is received into each daily as the tanks are constantly filled and drawn from and there are no meters He has not tried to ascertain the quantities without the help of meters

6 From the settling tanks water is let on to the filters. There are four filters, and all the four are leaky They are admitted not to have been cleaned completely for several years, if not ever since their construction The film and surface layer of the sand are said to be regularly removed once a f -night The ventilators appear to be out of order. The filter bed is said consist of from above downwards:-

2 feet sand
9 inches gravel shot-size.
1½ feet metal
6 inches brick
Total 5½ feet (4'-9")⁴

The top layer of the sand does appear quite fine enough, from 4 to 5 feet of water is always allowed stand over the filter beds This a -pears to be too much, but the -intendent is unable to say what he it means He does not know the dif- -ference of levels in the Pure Wate Tanks and in the filters and unless the levelling instruments are got down from Bangalore he says he is u -able to ascertain them The rate o filtration too is not ascertainable as both the filters and the Pure Wa -ter tank are leaky and no attempt appears to have been made to ascer- -tain the actual quantity of water

tha

As regards the quantity of water pumped daily the Superintendent was right in saying that he could not give the information as he was not with me when the experiment was made. Dr Palpu may well have applied to me

Passing on to the filters next Dr Palpu observes they are all leaky How did he arrive at this conclusion? What were the tests made by him? I think for all prac--tical purposes they are quite good There may be slight leaks, but does it follow that the fil--trate is thereby affected by it? There may be harmfull leaks and harmless leaks

Dr Palpu next states that the sand is not fine enough Will Dr Palpu define the exact grade of sand he advocates I know this much, that the sand used for those were got from the Cauvery and far superior to what we get in Banga--lore He next says that the depth of water is 5 feet and that it is too much As a matter of fact it is only three feet

Dr Palpu observes that the materials were never cleaned from the commencement But it is on re--cord that they were all cleared in 1903 and it is proposed to start again with two filters this year Clearing of filtering mate--rials is not such an easy busi--ness where the quantity pumped is already insufficient It can be done satisfactorily only when the electric plant is installed and the supply made more copious

Dr Palpu's observation about the "Head" cannot admit of being clearly explained in such a brief report as this Without being pre--sumptuous I may remark that even very big Sanitary Authorities have the vaguest possible notions and we may very well overlook (if at all it is a fault) if the Superin--tendent wisely kept his mouth shut on this point

Although the Mysore Filters cannot

the area of filter beds provided sanctioned Estimate to suffice for 750 000 gals a day, as the consumption at the time is more than this be necessary to increase by 2 additional filters early date.—

(For para 7 of Mr. Palpu's letter)

rank cannot as up-to-date filters yet I can convince any-body who can un--derstand the action of the Sand Filters that as worked by me now they are quite safe and can yeild good results As soon as funds are available it is proposed to add two more filter beds or con--vert the whole system into Jewell Filters The filter beds will also be made automatic as regards the regulation of the filtering head Electrifying of the pumping plant and improvement of the distribu--tion system are the two items that need immediate attention and as funds are limited they should of course have the preference

The storage or pure water tank is also stated to be leaky and Dr Palpu quotes certain figures in support of this statement

All that I know now is that such a state of affairs does not exist and with due regard to Mr Sparkes I may be excused if I say now that it could not have existed Let me show how -

The following facts must be admitted (1) If the tank is leaky the leak must of course be going on perpetually, (2) Between the hours 11 & 5 at night there is no consumption or practically very little, (3) The loss therefore re--presents the loss from leakage pure and simple(4) By simple "Rule of three" if in 6 hours the leak--age amounts to 5 feet, ir 24 hours it ought to be 4 x 5 or 20 feet, (5) The depth of the tank itself is only 10 feet, (6) The capacity of the tank being one mil--lion gallons the loss from the leakage from one source only viz the Pure Water Tank amounted to 2 million gallons according to the observations of Mr Sparkes, (7) As the Pure Water Tank never went dry the corclusion must follow that in addition to the consump--tion in the City the turbines have been performing the almost Herculean ~~part~~ task of pumping 3 million gallons a day Further com--ments are unnecessary I am af--raid that r Sparkes must have got some wrong information alto--gether

that passes through the filters at any particular time.

7. The storage or pure water tank is so leaky that Mr. Sparkes who was for some-time President of the Mysore City Municipality says that one night between 11 and 5 the water in the tank went down as much as 5 feet

8. The pipes in the City are of cast iron with lead and cement joints The mairs, sub mains and house con--nections are old and they leak often. Since September last the Superintend-dent says he has attended to twelve leaks in the mains and 60 or 70 leaks in the sub mains & house connections I have myself noticed some leaks one of these was within a covered sewer and another within an open road side drain Leaky pipes are a source of very great danger in towns where the Water Supply is intermittent for all kinds of dirt and muck that may happen to be by the side of these leaks are as a rule sucked into the pipes on account of the vacuum produced in the pipes when the water supply is cut off. Lumps of night-soil and of-

entire contents of water clo-
been sucked into water
in some of the town of England
intermittent water supply and
epidemics of diarrhoea, typhoid
have been resulted therefrom
the water pipes often run
de of drains and sewers and
nes in a across them They
pass by cattle stalls, latrines
&c &c The pipes are so old and
rot that leaks are very numerous,
of the leaks are underground and
are not easily detectable Through
the leaks sewage and filth of all
kinds are sucked in when the water
supply is cut off The first few gal-
-lons of water from several of the
taps when the supply is again turned
on have often been noticed to be a
more or less dark mixture of muck of all
kinds and this is what has been suck-
-ed in during interval It is not all
rust from within the pipes as ordi-
-narily supposed by the people As
large lumps of night soil have pro-
-bably not passed irto the pipes or
been recognized as such, the impu-
-rities

impurities found in the water when the supply is turned on have till now not roused any suspicion as re-gards their nature or source.

But when the people learn the truth there is sure to be serious complaints, for they do not expect to be served with sewage and filth of all kinds instead of pure water, and in the sacred name of Her High-ness the Maharani (Regent)

9. Apart from sentiment, that water was thus contaminated is not conducive to health is clear from fact that in Mysore the propor-tion of cases of diarrhoea treated in the various Medical Institutions is about 75% more than in Bangalore It is also significant that when Bangalore has been free from cholera (only one case having occurred during the current official year) the disease prevailed in Mysore City during the last eleven months the total number of cases and deaths reported being 273 and 284 respectively Typhoid fever another disease due to pollu-ted water supply, has also been

prevalant

prevalant in Mysore when Bangalore
been practically free.
This increase in water-borne
s could have been prevented
Water Supply had received
r attention. At the present
rks show continued neglect at
every stage and the supply
source of danger to Public
The works call for immediate
more or less complete overhaul-
ing. In the first place whether work-
ed by steam, or by electricity as
proposed, efficient pumps are neces-
sary Secondly, tanks and filters
have all to be made water-tight and
the filtering materials completely
cleaned or renewed Thirdly, the
pipes have to be more or less com-
pletely renewed and in several pla-
ces relaid Their joints should be
ially seen to Fourthly, the sup-
should be constant and never
ed to be made intermittent
thly, the Superintendent ought to
be conversant with all the details
in connection with the Works or one
knows the details appointed in-

It is a pity that regular che-
-mical

at * Bacteriological
of this water
here made as in the
of water at Bournabeli)
that this should be
in future —

to any-body that may be deputed
inspect the system that:-
(1) That the system is not so rot-
-ten as Mr. Pulpu wants the
-ment to believe.
(2).That every attention is being
bestowed to remedy the defects in
so far as they exist with due con-
-sideration to the funds and re-
-sources available.
(3). That far from the works show-
-ing "continued neglect" at every
stage" there is improvement at
every stage since the works were
taken over charge by the Public
Works Department
(4). "The immediate and more or
less complete overhauling" is be-
-ing carried out quitely and with-
-out fuss. Last year we spent
about Rs.60,000/- and we got the
storage tanks water tight We
-ted supplemental steam plant to
secure a continuous supply to the
City, we ordered for a 1st class
water meter (parts of which have
already arrived) and we have
bought galvanised pipes, stopcocks
and fittings to the extent of

Rs.10,000/- to improve the foun-
-tains. As the funds for the last item was sanctioned only in May last active work was started only lately and the feed pipes to the fountains are in course of being overhauled.

It is needless for me to point out that it will be waste of time and waste of money to hunt for un-
-derground leaks without at first tackling the more apparent surface leaks Trunk mains and sub mains do not often leak so much as these small W I pipes do and they are far less liable to sewage contami-
-nation than these feed pipes

As observed by me above, the Department is actively engaged in this work now and to-day we have in hand nearly 10,000 feet of W I pipes, 50 C I fountains, which will all be utilized to replace the old ones The fact must not be lost sight of that the whole of these pipes must take the place of the old pipes without in a way putting the people into serious inconvenience The work of reste-
-ration must therefore be done

[redacted]ly

An accurate map of the City has been prepared and all the existing fountains have been marked on it and the system of overhauling the feed pipes is proceeding on regu-
-lar systamatic lines. Had Dr. Pulps only requested me to go with him, I should have gladly done so and showed him what the Public Works Department has already done and what it is proposed to do still further for the year 1907-
-1908 I have asked for RS 10,000/- for improvements to the City Works and an estimate for RS 85,000/- is under preparation for the electri-
-fying of the plant at the Head Works Is this not a pretty big outlay or the part of the Govern-
-ment for a single town of Mysore while there are services of other towns crying for help

Let Dr Palps by all means take as much interest as he likes in the Water Supply to Mysore and I shall be only too thankful to receive and pay attention to his suggestions if more practical and to the point There are a thousand

and

and one ways in which one man can help another But to condemn whole -sale, a big show, and accuse of one of "continued neglect" of the works in his charge is another matter At any rate, I believe that men even better qualified than Dr Palpu would have hesita- -ted before using such strong language

Dr Palpu recommends five sug- -gestions and it may interest him to know:-

(1) That the project for electri- -fying the pump have been already under investigation and a project will be submitted to Government for sanctior

(2) The tanks and filters are be- -irg made water-tight and it is a wonder that Dr Palpu did not no- -tice the work in actual progress

(3) The materials having been cleaned in 1903 provision is beirg made in the estimates for 1907-08 to take up two of the filters Overhauling of the complete mate- -rials once in three or four years is all that is considered neces-

-sary

necessary.

(4). The C.I. pipes are all quite good and no-body will think of re--newing or cleaning them As re--gards the feed pipes they are al--ready being renewed and the work will probably be completed during the year if necessary funds are available

(5) The supply has been continu--ous for all except 5 weeks and even that short period of intermit--tent supply was due to causes be--yond human control If full re--cords are called for, it will be apparent that I did all that was possible to save the situation

(6) The Superintendent was trai--ed by me and was in charge of the Bangalore Works ever since the com--mencement until he was transfer--red to Mysore Dr Palru himself admits that the Bangalore water is alright and he never found fault hitherto with the same The Super--intendent is a thoroughly practi--cal man one that knows the whole of the routine work of a Water Supply from the Machinery down

to

to the Distribution System No doubt he was unable to answer some of the questions put by Mr. Palpu regarding "Filtration Head" &c which I say is after all under--stood by very few even in the pro--fession

11 Dr Palpu's suggestions to have Bacteriological examination of the water made regularly is no doubt very good But at the same time such an examination should be made by a duly qualified Officer and on the spot It will be use--less sending samples of water in unsterilized bottles packed in saw--dust all the way from Mysore Dr Sreenivasa Rao with whom I had a talk on the subject told me that it took as a rule 3 days for the samples to reach him and that the quantitative analysis after that interval was simply useless

The qualitative analysis was on the whole good which goes to prove that there was no pollution at the Filter beds nor at the Dis--tribution system generally as whole Occasional pollution of a

t p

tap here and there may occur, but if the Sanitary Officer works hand in hand with the Superintendent, the mischief could be nipped in the bud as it is quite a simple matter to isolate any partiaular fountain and do the heedful before the contamination has had time to spread This fact must be recogni-
-ed and put into practice But if the Sanitary Officer ignores the Engineer and both work trying to cut each other's throat no good will result The Engineer is the Executive Agency and looks to the Medical Officer to help him in those matters where only a Medical Officer can take the necessary ac-
-tion The Sanitary Officer should also recognize the fact that his advice is sought only on matters sanitary and that he should not in-
-terfere in Engineering details Unfortunately Dr Palm has ignor-
-ed this principle altogether and he has ~~take~~ taken upon himself the responsibility of condemning the whole show, machinery, pipes, filters and all and informing the

Government

Government that the people of My-
-sore are being poisoned wholesale
and that it was necessary to em-
-bark most urgently on a project
which even if most modestly esti-
-mated will cost at least two or
three lacks He is not content
with remedying such of the defects
as are apparent but he has come to
the conclusion that the"pipes have
to be more or less completely re-
-newed or relaid without the
least delay The filter beds, pure
water tanks, have all to be render-
-ed water-tight What will the
poor people of Mysore do I wonder
for their supply when this is all
being done The more we look close
into the details of the proposals
the more one will be convinced of
the impracticability of the propo-
-sals It only wants money in the
first instance, then time and pa-
-tience to get the system back in-
-to a pukkah good one I do not
think any one will deny that the
Mysore Works as a whole are tho-
-roughly good and that it could be
easily improved and all defects
remedied in course of time Very

few towns in the Madras Presidency can boast of a water supply system equal to those of Mysore and Ban--galore and hundreds of towns will only be too thankful to have a wa--ter supply even with all the de--fects as alleged by Dr. Palpu, to exist in the Mysore System I am sure that Dr Palpu has not the least notion of the cost of carry--ing out all his proposals and if he had, he would not have made such preposterous proposals so light-heartedly such as renewing all the mains and sub mains of the City

The value of a proposal is after all guaged by the practica--bility and the cost though the proposal may ideally be the best one I hope I have been able to show as far as lies in my humble power that Dr Palpu's proposals are (1) Impracticable, (2) Prohi--bitive in cost & (3) absolutely unnecessary

Estimates and projects for whatever items are urgently nece --sary have been under preparation

for

for some-time, while a good deal has been done during the course of the last official year and provi-ded I am given a fair trial I can confidently say that by the end of the present official year a good deal more will be done. The works in Bangalore has been under my charge from the commencement and if they have been kept well why should not Mysore Works also be maintained as well

It is only ten months since the works were taken over by me and as every improvement means money and as funds are forthcomirg only lately the work of the im-provement wherever necessary has been started only lately and is proceedirg as rapidly as practi-cable

In conclusion, I beg to be ex-cused for this lengthy report, but as the subject is of vital im-portance to the City of Mysore and as Dr Palpu's report is al-most borderirg on the sensational and likely to upset the minds of the people and as his criticisms

applied

applied not to the original design but to the present management, I have deemed it necessary to pro--tect myself and convince the Government that I am alive to the serious responsibility resting on my shoulders and that I am aware of the real defects of the system and that steps have been taken to remedy them wherever they exist as fast as time and money will per--mit

V Ranga ... Iyengar

Executive Engineer,
Water Supply & Stores Division,
Bangalore

altogether Perhaps the man who was deputed by him made a hopeless blunder and Mr. Sparkes never checked his figures Observations like these should be undertaken only with a trained and trustworthy staff.

8 Dr. Palpu states that the mains, sub mains &c are old and leaky It is not stated how Dr Palpu arrived at this conclusion In how many places did he examine the mains and sub mains

The mains and sub mains are of C.I and they are only 10 years old C I. pipes last for 30 years and no-body will think of condemning them after such a short service of ten years

As regards the feed pipes to the mains they are no doubt old enough to be renewed and with the RS 8,000/- sanctioned in 1906-1907 some 10,000 feet of galvanized pipes have been purchased and the work of renewing the feed pipes is proceeding on systamatic lines 50 fountains have been already marked out by me and when these have been completed another lot will be taken in hand.

Any one who is familiar with practical work will be able to see at once that it will be impossible if not positively dangerous to the health of the City to tear open the pipes all over the City The work has to be carried out without cutting off large areas and thus seriously inconveniencing the public

as usual, when Government
fail, to have the Water
mains & Submains al-
-ng the roads, & the Sewers
middle of the road & where
are connected the Water-supply
be taken above the
But-in the case of Mysore
obliged to have recourse
) separate system of
as it would be to
to provide for carrying
Storm-water in our Sewers
has necessitated the wider
do away need for Storm-
drains, & our Sewers are
of carrying off a small
of the Surface drainage
roads do not-
however bring more a
on sewerage. Of a Sewer,
anyone can read in many
who ten in the Surveyor

(Sd) Wallace
15.8.07

Dr. Palpu's observations as re-
pipes
-gards running alongside of drains
and sewers is not by any means pe-
-culiar to the Mysore System. It
is the same wherever you go and I
do not see how it can be avoided
when one bears in mind that all
these pipes have to be confined to
the margin of the roads Is it pos-
-sible to avoid crossing of the
drains? when we remember the drains
run in front of a house between
the house & the water main in the
street, is it possible to have
miles & miles of pipes without a
single leak? All that we can do is
to maintain a constant system of
patrol for detecting leaky pipes
& when found to repair the same

In Mysore the supply has been
continuous but for the short pe-
-riod between 6/5/07 & 25/5/07 and
even this small break was due to
the shortage of water in the river
which could not be helped It is
unfair of Dr Palpu not to reco-
-gnize this fact Any one reading
his report will naturally conclude
that Mysore had all along an inte-
-mittent supply When the supply
is continuous as it is now, whe e

is the fear of "lumps of night-soil" entering the pipes? Now Dr Palpu has got samples of water analysed has he found any proof of the existence of extensive contamination from sewage? If the people have been really drinking sewage & filth all this time, I am sure it will have made itself apparent long ago Even when cholera was in epedemic form last year Dr Smythe made very exhaustive tests and never condemned the filters What he condemned was the use of Kukkerhally water & he strongly advised the people to resort to pipe water and nothing else The mere fact of there having been only 375 cases of cholera during the last eleven months shows plainly that the filter beds could not have been defective, for if it had been, there would have been an epedemic The real cause lies in the use of well water which I have personally observed is more common in Mysore than in Bangalore

Dr Palpu's conclusions cannot be substantiated as the water supply was continuous for all but 3

week

weeks during the last eleven month and the horrors of "Lumps of night -soil" "and all sorts of filth" en--tering the system could not have existed when the supply was conti--nuous Will Dr Palpu kindly go over the registers of the Hospital if there was a sudden rise in water--borne diseases concurrent with the introduction of the intermit--tent ~~supply~~ system Is Dr Palpu aware of the fact that even the highly civilized Government of His Majesty has to content itself with giving only a days service for such important towns as Trichno--poly, Madura and Tanjore? Is he also aware of the fact that even in the Civil & Military Station of Bangalore they have been doing the sa[illegible]ularly every year? It wa[illegible] no doubt not desirable but it was sim--ply impossible to avoid it There was no go

The charges and the language in which it is written are such that I must respectfully be permit--ted to challange Dr Palpu s[illegible]ta--tements, I can prove to him and

t

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File No Mg-07
Serial No 1.

No. of letter replied to 1269

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT
(Mg.)

, *the* 22 Feby 1907

of issue 25-2-07

by -- MHH

READ—

Letter No 5789 dated the 14th August 1907 from the Chief Engineer of Mysore forwarding, with reference to G.O. No. 690-8 Mg(558-06)-2 dated the 24th July 1907, a copy of Dr Palpu's report on ~~Criticisms of~~ the Water Supply to the Mysore City with marginal notes by Mr Rangaswamy Iyengar, Executive Engineer Water Supply and Stores Division, together with his own opinion in the matter

SUBJECT

Order thereon 2748-60
mtl 4-9-07 5 4/25/9-07

Recorded & Communicated to the Mess Engineers Dr Palfrey Reports was sent.

CAB 4/4
Sec'y 5/3/1917

2B
3/9/07

To,

The Prest., Improvement Board with copy of the Papers in the Preamble —
Municipal Council. "
Chief Engineer "
Senior Surgeon "
Sanitary Commissioner "

Ltr 10 Sept 07

Mtl
12/9/07

Imp'ved mtl
19/9/07
24/9/07